



Ceramic honeycomb Filters

Ceramic honeycomb Filters slice for the melting of metal in metallurgy /foundry industry, filters are in round slice shape etc. Feature: High Mechanical intensity , heat-resistant characteristic, able to get rid of the metal impurity, refractory scrap, solid refractory alloy, sinter, in the molten metal liquid when casting the products, Reduce the air vent of castings, raise the quality of casting, reduce and cast the cost, Raise productivity. So our ceramic filters are extensively applied in the metallurgy plant of casting /foundry of steel, iron, copper and aluminum.

Performance:

- (1)The utilization ratio increasing 5-10%
- (2)Casting tired intensity increases by 15.5%
- (4)Spend 1700 °C fire-resistant
- (5)Thermal shock, Heat impact resistant: not break cooling from 1200°C by cold water for 5 times;
- (6)Coefficient of thermal expansion : (1000°C) $1.6\sim 5.4*10^{-6}/^{\circ}\text{C}$;
- (7)Compressive strength in the direction of axis $>2\sim 5\text{MPa}$;
- (8)Bulk density: $\geq 0.6\sim 1\text{g/cm}^3$, Water absorption $25\pm 2\%$ 。

No.	size	shape of cell	type
1	50*50*12.5	square	100~300cells/per square inch
2	75*75*12.5	square	100~300cells/per square inch
3	75*50*12.5	square	100~300cells/per square inch
4	100*100*12.5	square	100~300cells/per square inch
5	100*75*12.5	square	100~300cells/per square inch
6	125*125*15	square	100~300cells/per square inch
7	125*100*15	square	100~300cells/per square inch

Filters slice for Sulfur removal/recovery

High Alumina honeycomb ceramic Filters plate with special catalyst for Sulfur removal, sulfur recovery in petrochemical industry.

Main technical indicator: (1) Purify rate $\geq 95\%$ (2) Catalyst tolerance temperature ≥ 300 .

No.	size	shape of cell	type
1	47*12.5	triangular	100cells/per square inch
2	47*12.5	triangular	200cells/per square inch
3	47*12.5	triangular	300cells/per square inch
4	47*12.5	triangular	400cells/per square inch
5	25*12.5	triangular	800cells/per square inch

Available materials

Chemical composition in wt-%

chemical components	Alumina Oxide Porcelain	Mullite porous	Cordierite dense	Cordierite porous	Quartz Porcelain
SiO ₂	43.3	28.9	57.2	51.5	66.1
Al ₂ O ₃	52.0	68.3	25.5	36.4	30.4
MgO	0.1	0.2	7.9	8.5	0.13
Alkali	3.2	1.9	3.1	1.3	2.8